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भारतीय ताराभौतिकी संस्थान

INDIAN INSTITUTE OF ASTROPHYSICS

कोरमंगला / KORAMANGALA बेंगलुर / BANGALORE - 560 034.

No. 01/IIA/Civil/Warm/KKL/2009-10

April 16, 2009

On behalf of the Director, sealed item rate tenders in the prescribed schedule attached below are invited from appropriate, registered contractors in the state PWD, CPWD, MES and Private Body Competent Contractor who have executed works of similar nature in Scientific Institutions.

S1. No	Name of the Work	Estimated cost in Rs.	Time of completion	EMD Rs.	Cost of Tender Document
1.	The proposed "Laboratory for Warm Experiment" at Indian Institute of Astrophysics, Kodaikanal Observatory, Tamil Nadu".	~ 6.65 Lakhs	3 Months	20,000/-	500/-

Last date for submission of tender at Kodaikanal : 08.05.2009 15.30 hrs

Date & time of opening of tender at Head Quarters : 15.05.2009 15.30 hrs

The Tender Document can be viewed and downloaded from our website www.iiap.res.in/tenders.htm. Hence the interested tenderers may, at their option, down load the same from our website (as "NO" hard copies of Tender document is/are provided from this office) and submit their offers along with the Tender fee for Rs.500/- (Non refundable) in the form of pay order or Demand Draft which shall be drawn in favour of "The Director, Indian Institute of Astrophysics" payable at Bangalore.

The tenderer must submit sealed tender with the name of the work superscribed on the cover duly completed in all respects to the Scientist-In-Charge, Indian Institute of Astrophysics, Kodaikanal Observatory, Kodaikanal - 624103 on or before the last date. The tender will be opened on 15.05.2009 at 15.30 hrs at Head Quarters in the presence of the tenderer or their authorised representatives who are present at that time. Tenders also should accompany the EMD in the form of Demand Draft/Bankers cheque only, drawn in favour of "The Director, Indian Institute of Astrophysics, Bangalore". The Director reserves the right to accept or reject any or all tenders without assigning any reason there of.

The company should have completed one work costing not less than Rs.7 lakhs during previous 3 years for Government/Semi-Government department or similar works each costing not less than 3 lakhs.

Administrative Officer (Ag)

Conditions of contract.

Sealed item rate tenders are invited by The Director, Indian Institute of Astrophysics, Koramangala, Bangalore-34 for the Proposed Laboratory for Warm Experiment at IIA., Kodaikanal, Tamil Nadu.

Estimated cost : ~ Rs.6.65 Lakhs

Earnest money deposit :Rs.20,000/-(Rupees twenty thousand only).

Demand draft/ banker's cheque drawn in favour of the Director, Indian Institute of Astrophysics, Koramangala, Bangalore.

Tenders without EMD will be rejected.

Time of completion : Three Months.

Period of commencement : 7 days from the date of receipt of work

order

Percentage of retention money: : 5% to be deducted from each RA bill and

shall be released as under (i)(50% on completion of works and along the final bill (ii) Balance 50% less recovery, if any towards the cost of defects rectified by employer due to lack of response of the contractor on completion of defects liability period and on certification by the Engineer –

in charge.

Defects liability period : 12 Months.

Amount of liquidated damage : 1% (one percent) per week subjected to the

maximum of 10% of the value of contract.

Escalation : In view of the short duration of the

contract, no escalation will be paid to the contractor on account of changes in the market prices of any items of work or

changes in the cost of living indices etc.

The Director, Indian institute of Astrophysics reserves the right to reject any or all the tenders without assigning any reason whatsoever.

The scope of the work and explanatory notes given below are neither complete nor exhaustive but are added to assist the contractor to understand the scope of the work.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed, in general shall themselves obtain all necessary information.

The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools and plants, water, electricity, facilities for workers, safety norms and all other services required for executing the work

Timely completion of work and quality of workmanship are of prime importance and the work shall be completed within the stipulated period.

I/ We have read the tender notice, specifications, schedule, drawings, general rules and all other contents of the tender conditions, and understand that you are not bound to accept the lowest or any tender you may receive.

I/ we hereby tender for the execution for the director for the work specified above within the time specified above, at the rates specified in the attached schedule of quantities and in all respects with these specifications, design, drawings and instructions.

I/we agree that should I/we fail to commence the work specified in the above memorandum an amount equal to amount of earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Director.

Dated:	Signature of the contractor With stamp
Witness:	Postal address.
Address.	
Occupation.	

General conditions of contract.

Item rate tender for works.

- □ The Institute reserves the right to alter the scope /or reduce quantum of work before issue of work order and the contractor shall not have any claim what so ever on this account.
- Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall be taken as correct.
- ☐ If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or words, then the rate quoted by the contractor in the words shall be taken as correct.
- □ When the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rate quoted by the contractor will be taken as correct and not the amount.
- The contractor shall take all precautionary measures to prevent entry of dust, dirt and noise pollution to the adjacent buildings and keep the premises neat and tidy, remove surplus materials and rubbish and shall not cause inconvenience to the staff of IIA. If the contractor or his working people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any buildings, road, kerbs, fence, enclosure, water pipes cables, drains, electric and telephone posts or wire, trees grass or garden. The cost of any such damage and risks arising out of this shall be entirely borne by the contractor.
- A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer- in charge. All the measurements of the work may be recorded jointly by the Engineer-in charge and the contractor or their respective representatives. The measurements will be taken at site, as per latest IS code of practice for measurements. All measurements shall be taken with steel tapes only.
- □ The Engineer- in charge shall have full powers to the removal from the premises of all materials and bad workmanship, which in his opinion are not in accordance with the specifications.

- □ The Engineer in charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors employ upon the work who may be in competent or misconduct himself.
- □ For working on Sundays, holidays and late hours prior permission will be accorded by the Engineer in charge on the application made by the contractor.
- □ All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in charge who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.
- □ The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc as institute's property and such materials shall be disposed off to the best advantage of the institute.
- □ The contractor shall execute the whole and every part of the work in the most substantial and workman like manner and in strict accordance with the specifications of the CPWD / DOS / Bureau of Indian Standards. In case of any class of work for which there is no such specifications the contractor shall carry out the work in all respects in accordance with the instructions in writing of the Engineer- in charge.
- The Engineer-in charge shall have powers to make any alterations in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions that may appear to him necessary or advisable during the progress of the work and the contractor shall carry out the work in accordance. The rates for such additional, altered or substituted items of work shall be worked out in accordance with the standard procedure followed in CPWD / DOS.
- □ If at any time after the commencement of the work, the director shall for any reason whatsoever not require the whole thereof as specified in the tender to be carried out, the Engineer- in Charge shall give notice in writing of the fact to the contractor who shall have no claim to payment of compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full, but which he did not derive in consequence of the full amount of the work not having been carried out, neither shall he have any claim for compensation by reason of any alterations having been made in the original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

- The contractor shall obtain a valid license under the contract labour (R&A) act 1970 and the contract labour (Regulation & Abolition) central rules, 1971 before the commencement of the work and continue to have a valid license until the completion of the work. No labour below the age of eighteen years shall be employed on the work. The contractor shall pay to labour employed by him either directly or through sub contractors, wages not less than fair wages as defined in the provision of the contract labour (R&A) act 1970 and the contract labour (R&A) central rules 1971 wherever applicable.
- □ The contractor shall at his own expense arrange for the safety provision as per safety code framed from time to time and shall at his own expense provide for all facilities in connection therewith.
- □ The contractor shall comply with all the provisions of the payment of wages act 1936, minimum wages act 1948, Employees liability act 1938, workmen's compensation act 1923, Industrial disputes act 1961 and the contractors labour (R&A) act 1970 or the modifications thereof or any other laws relating thereto and the rules made there under from time to time. The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract. Security deposit will not be refunded till clearance certificate from Labour Officer is obtained by contractor.
- □ The contractor shall make his / their own arrangements for water required for the works and nothing extra will be paid for the same, as the water available from the institute source may not be sufficient to meet the construction.
- □ The contractor shall have all the tools and plants necessary to carry out the work such as concrete mixer, vibrator and hoist. The contractor shall employ one graduate engineer during the execution of the work
- □ Certified plumbers should be employed by the contractor on the plumbing and sanitary work.
- □ The entire work is to be completed within the period stipulated i.e. three months from the 15th day of issue of letter of intent / work order. The period includes monsoon period also. Time shall be the essence of the contract. After the work awarded, the contractors shall furnish detailed time schedules for the approval of the Engineer-in charge which after approval shall form part of the contract and are to be strictly adhere to.

- □ The maintenance period for the work shall be twelve months and any defects noticed during the period shall have to be rectified by contractor at his cost, failing which the action taken for maintenance Engineer-in charge shall be final over which the contractor will not have any claim.
- □ The contractor shall extend all co-operation to the contractors executing works such as electrical, air conditioning etc who might be working at the site and shall permit to use scaffolding etc already put up by him.
- □ The Engineer-in charge will have the right to get any item of the work included in this tender or not executed through other agencies. Schedule of probable quantities in respect of the work and specifications are enclosed. The schedules of probable quantities are liable to alterations by emission, deduction or additions at the discretion of the Engineer-in charge.
- □ The rates quoted by the tenderer in the schedule shall be inclusive of all taxes and levies payable under respective statues, inclusive of all sales taxes, sales tax on components/ materials/ consumables and also sales tax on works contract in pursuant to constitution (forty sixth amendment) act 1982, control duty and /or any other duty levied by the government or other public bodies. The rates shall be firm and shall not be subject to exchange variations, labour conditions or any condition.
- □ Sales tax will be deducted from the amount payable to the contractor as per the relevant sales tax act, applicable for the contracted work as amended from time to time, at the rates specified from time to time.
- □ Samples of all materials to be incorporated in the works shall be submitted to the Engineer-in charge for his approval without claiming any extra cost. Materials not confirming strictly to the samples are liable to be rejected.
- The employment of any sub-contractors will be subjected to the approval of the Engineer-in-charge. If at any time during the progress of the work the Engineer-in charge determines that any sub-contractor is in competent or undesirable the contractor shall take steps immediately to cancel such sub-contractor. The contractor shall be entirely responsible for all the work included in the contract whether executed by him or through his sub-contractors. In particular it may be noted that the contractor shall obtain steel doors and windows from a reputed manufacturer and before placing order for these, the contractor shall obtain the concurrence of the department for the agency from whom he proposes to obtain steel doors and windows.

- □ The contractor shall prepare a CPM / PERT /BAR chart/ Detailed estimate programme within a weeks time of issue of work order.
- All materials and articles brought by the contractor to the work site shall have to be declared at the security gate. Similarly no materials shall be taken out from the departmental premises without proper gate pass which will be issued by the Engineerin charge.
- □ Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.
- □ Sample of various materials required for testing shall be provided free of charge by the contractor. Testing charges, if any unless otherwise provided, shall be borne by the department. All other expenditure required to be incurred for taking the samples, conveyance, packing etc. shall be borne by contractor himself. In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost including preparation of cubes curing etc complete.
- □ Work experience certificate should be submitted by the contractor along with the Tender document.
- □ For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature shall be accepted along with the item number.
- □ The contractor shall along the tender submit a schedule of machinery to be used on the work in support of his assurance to adhere to the time schedule specified in the proforma given.
- □ The tenderers shall also submit along with the tender a list of similar major works as also the approximate cost of each work carried out by him in the past and are being carried out for different government department or public bodies along with the details of addresses of the agency to whom carried out in the proforma given.

	I /We declare that the work will be carried out as p document and as per the specifications said above. The the specifications said above will be carried out as relevant CPWD specifications, and if not covered in will be carried out as in the relevant IS specifications, at the above, the work will be carried out as directed it charge.	e items of work not covered in per the specifications in the CPWD specifications the work and if not covered in the any of
	I / We declare that the rates quoted by me/us are on the	basis of the above.
Da	ted:	Signature of the contractor With stamp

TENDERER'S EXPERIENCE

Tenderer shall furnish here a list of similar jobs executed by him to whom a reference may be made by the Indian Institute of astrophysics in case such a reference is necessary.

Sl.	Name & description of work	Value of	Period of	Client persons to
No		work and	construction	whom reference
		date.	and date.	may be made.

eal of company	Signature
	Designation
	Company

Date

TOOLS AND EQIPMENT LIST

The tenderer shall indicate herein below the equipment he has in possess and the equipment he proposes to bring to the site, in case the work is awarded to him.

Sl.	Type and Description of the equipment.	Numbers the	Numbers he
No		bidder has in	proposes to bring
		possession	on to site
			111 1 0

Tenderer hereby confirms that the quantity and type of tools he will employ for construction will not be less than those listed above and agree to bring more equipment if so warranted in the opinion of the Engineer-in-charge.

Seal of company	Signature Designation
	Company
	Date

NAME OF WORK: THE PROPOSED "LABORATORY FOR WARM EXPERIMENT" AT INDIAN INSTITUTE OF ASTROPHYSICS, KODAIKANAL OBSERVATORY, TAMIL NADU.

DETAILED ESTIMATE:

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
1.	EARTHWORK:				
1.1	Earthwork in excavation for Foundation Trenches for depth not exceeding 1.5 Mts. in all ordinary soils including dressing of sides ramming of bottom, dis posing the surplus excavated materials within a distance of 50m and lift upto 1.50mts complete as per specifications. (disposed soil to be leveled by breaking clods if any and				
1.2	neatly dressed.) Supplying and filling in plinth with river sand and boulders in layers not exceeding 15cms in depth consolidating each deposited layer by ramming thoroughly, watering and dressing etc; complete for all leads and lifts.	42.0	Cum		
1.3	Filling available excavated approved earth (excluding rock) in trenches, sids of foundation, plinth, etc; in layers not exceeding 15cm depth, breaking clods, consolidating each deposited layer by ramming, watering and dressing, etc; complete for lead up to 50m and all lifts etc; complete as per specifications	15	Cum		
2.	PLAIN CEMENT CONCRETE:- (ITEM No: 1, 1.1.2 Pg No: 82) Providing and laying cement concrete using 40mm nominal size graded hard granite stone aggregate obtained from approved quarry including compaction, finishing top surface to level, curing but excluding cost of formwork, etc; complete as per specifications. Mix ratio specified is for (cement: coarse sand: graded stone aggregate In foundation and flooring: P.C.C 1: 4: 8	9.0	Cum		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
3.	SIZE STONE MASONRY: (ITEM No: 3, 3.1 Pg No: 68) Providing and constructing size stone masonry using hard granite stones obtained from approved quarry with edges of stones hammer dressed in courses not less than 20cms with bond stones at 2m apart in each course including curing, raking out joints and simultaneously flush pointing with the same mortar etc; complete all as per specification in foundation and plinth. (the mix ratio specified is for cement: coarse sand). In cement mortar 1: 6.	33.0	Cum		
4.	BRICK MASONRY: (ITEM NO: 9, 9.4,9.4.3,15 Pg No: 71 15.4,15.4.1 7	,72,74) 5			
4.1	Providing and constructing BRICK MASONRY in cement mortar as per mixes stipulated below using approved well burnt bricks of "CLASS DESIGNATION" (classification as per I.S. 1077-1986) as specified below, including raking out joints 10mm deep, scaffolding, curing, etc; complete all as per specifications in				
4.2	superstructure up to roof level. (the mix ratio specified is for cement : coarse sand). USING BRICKS OF CLASS DESIGNATION "10.0" (Minimum Average Compressive Strength not less than 10N/sq. mm). In CM 1:4 HALF BRICK THICK PARTITION	27.0	Cum		
	WALL: Providing and constructing HALF BRIC MASONRY wall or partition in cement mortar as per mixes stipulated below using approved well burnt bricks of "CLASS DESIGNATION" (classification as per I.S. 1077-1986) as specified below including raking out joints, scaffolding, curing,etc; complete				

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	all as per directed by Engineer Incharge in superstructure.(the mix specified is for cement : coarse sand In super structure up to floor level - II USING BRICKS OF CLASS DESIGNATION "10.0"(Minimum Average Compressive Strength not less than 10N/sq. mm) in CM 1:4	10	Sqm		
5.	REINFORCED CEMENT CONCRETE: (ITEM No: 2, 2.2, 2.3 Pg No:86,87) Providing and laying reinforced cement concrete 1:1.5:3 using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, vibrating, compaction, finishing, curing, etc: complete all as per specifications but excluding cost of formwork and steel reinforcement upto roof slab.(Rate to include labour for keeping embedment if any, wherever required while casting). Mix ratio specified is for(cement:coarse sand: graded stone aggregate).				
5.1 5.2	Plinth Beam	3.2 3.2	cum		
5.2	Lintel beam Roof Slab	6.03	cum cum		
5.4	Chejja	0.672	cum		
5.5	Footing	0.504	cum		
6.	STEEL WORK- REINFORCEMENT STEEL: (ITEM NO: 01, 01.2 Pg No: 96) (IN ALL FLOORS) Steel reinforcement for all RCC items including decoiling, cutting, hooking, bending, cranking, fabricating to required shape, placing in position and tying the system with soft drawn annealed binding wire of diameter not less than 1mm with 2 strands etc; complete all as specifications at all heights(binding wire will not be				

measured for payment), with high yield strength deformed bars 7. FORM WORK: (ITEM No: 1, 1.1, 1.2, 1.3 Pg No: 93) (IN ALL FLOORS) Providing rigid and water tight centering and shuttering using best quality wooden planks or ply wood sheets or steel centering sheets including strutting, propping, bracing, staging etc; complete for all RCC items fixed in position as required Including labour for careful removal of formwork etc; complete all as per specifications up to roof slab. In horizontal / vertical / slanting surfaces. 7.1 Plinth Beam 27.1 Sqm Roof Slab 45.2 Sqm 7.3 Roof Slab 45.2 Sqm 7.5 Footing 8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete all as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete of EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
(ITEM No: 1, 1.1, 1.2, 1.3 Pg No: 93) (IN ALL FLOORS) Providing rigid and water tight centering and shuttering using best quality wooden planks or ply wood sheets or steel centering sheets including strutting, propping, bracing, staging etc; complete for all RCC items fixed in position as required Including labour for careful removal of formwork etc; complete all as per specifications up to roof slab. In horizontal / vertical / slanting surfaces. 7.1 Plinth Beam 27.1 Sqm 37.1 Sqm 7.2 Lintel beam 37.1 Sqm 7.3 Roof Slab 45.2 Sqm 7.4 Chejia 13.5 Sqm 7.5 Footing 1.56 Sqm 8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 106.0 sqm 8.2 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings , etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: fine specified is for cement fine sand. Cement mortar fixed planting scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings , etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings , etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings , etc; complete for External country and the sum of the planting scaffolding curing, etc; complete for External curing tect and the planting scaffolding curing tect and th			2.2	МТ		
7.2 Lintel beam 37.1 Sqm Roof Slab 45.2 Sqm 7.4 Chejja 13.5 Sqm 7.5 Footing 1.56 Sqm 8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 106.0 sqm 8.2 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusiveof sills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	7.	(ITEM No: 1, 1.1, 1.2, 1.3 Pg No: 93) (IN ALL FLOORS) Providing rigid and water tight centering and shuttering using best quality wooden planks or ply wood sheets or steel centering sheets including strutting, propping, bracing, staging etc; complete for all RCC items fixed in position as required Including labour for careful removal of formwork etc; complete all as per specifications up to roof slab. In horizontal / vertical /				
7.3 Roof Slab 7.4 Chejja 7.5 Footing 13.5 Sqm 7.5 Footing 1.56 Sqm 8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	:		:	- :		
8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusiveof sills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	7.3	Roof Slab	45.2	- :		
8. FINISHING: (ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusiveof sills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	7.4	Chejja	13.5	Sqm		
(ITEM NO: 05, 06, 01 Pg No: 176,177) 8.1 Plastering 20mm thick with cement mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive fills, jambs, soffits, ceilings, etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	7.5	Footing	1.56	Sqm		
mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level.Mix specified is for cement: fine sand. Cement mortar 1:4 106.0 sqm 8.2 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive fills, jambs, soffits, ceilings , etc; complete as per specification for heights up to 10m above GL. Mix specified is for cement: coarse	8.		77)			
		mortar specified below, finished smooth with lime neeru including scaffolding, curing, etc; complete for INTERNAL SURFACES of the walls, beams, ribs, sills, jambs, ceiling, etc; completeall as per specifications up to roof level. Mix specified is for cement: fine sand. Cement mortar 1:4 Plastering 20mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceiling, etc; complete as per specification for heights up to 10m above GL.		sqm		
sand. with cement mortar 1:4 157.0 sqm			157.0	sqm		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
9.2	PAINTING: (ITEM NO: 17,18 Pg No: 179,180) (IN ALL FLOORS) Painting plastered INTERNAL SURFAC with two or more coat of acrylic emulsion paint of I quality and approved colour on New work to give a even shade, including cleaning the surfaces, filling the crevices with a coat of primer and patti, scaffolding, e complete all as per specification. Painting EXTERNAL PLASTERED SURFACE with two or more coats of 100% acrylic exterior emulsion paint of approved make and colur – Apex, having protection against fungal growth, flaking, fading, alkali and UV degradation and to give an even shade with required finish including cleaning the surfaces, filling the crevices with approved filler, scaffolding, curing, etc complete all as per specifications. Painting wood work/MS work with two more coats of SYNTHETIC ENAMEI PAINT of I quality and approved colour give an even shade over a coat of synthetic enamel primer including cleaning the surfaces, filling the crevises with approved filler, scaffolding, etc; complete all as per specification. (Rate to include cost of synthetic primer	n tc; 106.0 f	sqm		
	also).	30.00	Sqm		
	FLOORING: (for toilet) Providing and laying ceramic/vitrified tile flooring/dadoing using approved quality ceramic tiles as per size specified below, colour and thickness varying from 6.5mm to 10mm according to the dimension of tiles and having a scratch hardness (Mohrs scale min 5)and other parameter confirming to IS 13630 of reguseries (Bell or Navin or Spartek or Kajariya, RAK, equivalent make) laid				

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	over a be/ backing of 12mm thick cement mortar 1:3 with cement slurry mixed with approved matching pigment and finishing to required level curing etc. complete all as per specification and as per the directions of engineer in charge at all floors				
	a) In flooring / skirting using (600X600) size vitrified tiles jointures . Basic Rate 600 per sqm	36.63	Sqm		
	b) Bath room flooring / skirting using (300X300) anti skid tiles Basic Rate: 450. per Sqm	2.0	Sqm		
	c) Dadoing 200X300 tiles. Basic Rate: 450. per Sqm	13.25	sqm		
11.	(ITEM NO: 04, 04.1 Pg No: 30,31) Providing and fixing wall mount Europ Closet suite(Double symphonic type) a).best Indian make white glazed vitreous chinaware European water closet double syphonic pattern of approved make with trap as mentioned below conforming to IS:2556-partII fixed to floor with necessary teak wood plugs,CP brass screws No. 8x37 etc. b)White glazed vitreous chinaware low level flushing cistern 10 Ltrs. Capacity suitable for double syphonic water close bearing ISI mark with all internal fitting mounted suitably over closet with necessary fixtures. c) 15mm heavy quality flexible PVC inlet connection with CP brass hexagonal check nuts with washer at both ends. d)Black plastic seat & cover of approved make with CP pillar hinges conforming to IS:2548 bearing ISI mark suitable for double syphonic water closet.	t SS			

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	e)15 mm n.b. CP brass angle-cock/stop cock conforming to IS:781 of approved make with a minimum weight of 400gr on the inlet to the cistern. Ccomplete all as specified above with approved fittings. With 'S'/P trap (Wall Mount)	ĺ	each		
12.	(ITEM NO: 10, 10.1 Pg No : 35,36) Providing and fixing Indian make wash hand basin (with cp bottle trap) comprising of size (550X400):				
	a) Best Indian make white glazed vitreous chinaware wash hand basin of approved make of size mentioned below conforming to IS: 2556 part- IV with single tap hole and bearing ISI mark supported on a pair of painted CI brakets conforming to IS: 775.	:			
	b) one 15mm CP brass pillar cock of approved make with hot or cold water indications as required conforming to IS:1795 with minimum weight of 577gm	1.			
	c)one 15mm heavy quality flexible PVe inlet pipe with CP brass hexagonal chemuts with washers at both ends d) 15mm n.b CP brass angle cock /stop cock conforming to IS: 781 of approve make with a minimum height of 400gm on the inlet to the basin.	ck , d			
	e) one 32mm heavy quality CP brass waste coupling with rubber plug and CP chain.				
	f) one 32mm heavy quality CP brass bottle trap with extension piece and wall flange etc.				

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
13.	g) one 32mm heavy quality GI waste pipe with specials from extension piece of the bottle trap to the floor trap, length not exceeding 1mts concealed in wall. h) one no. 40mm GI bend and 40 mm dia. 250mm long GI pipe connecting waste pipe to floor trap. All as per specification and as directed with approved fittings. Providing and fixing: a) best quality approved make mirror of size 550x400mm mounted on 6mm thick plain asbestos sheet backing with 4 nos. of CP brass cap screws and washers fixed to wall with necessary		each		
	plugs etc. all as specified &directed.b) best quality liquid soap holderc) CP towel rods 600 mm long 25mm diameter.d)CP towel rings	1 1 1 1	each each each		
14.	FLOORING: (COELOSTAT) (ITEM NO: 2 Pg No: 100) Providing and laying Indian patent stone flooring with CC 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) using graded granite stone aggregate obtained from approved quarry laid to level or slope in bays not exceeding 3 sqm per panel including providing 3mm thick aluminium dividing strips to the full depth of the flooring and finished smooth, curing, etc; complete all as per specifications. 50mm thick (using 20mm nominal size stone aggregate)		Sqm		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
15.0	WOOD WORK: (ITEM NO: 2,11,17,35,25.2,36 Pg No: 113,118,123,131,126,132)				
16	Providing ASCU treated, seasoned,1 st class COUNTRY WOOD(MATTI/HONNE) in frames of doors, windows, ventilators and other frames etc; wrought, framed and fixed in position with 40mm X 3mm and 400mm long M.S hold fasts embedded in cement concrete block of size 345/230/115mm X 230mm X 150mm in P.C.C 1:3:6 mix for wall locations. Further if the frames are butting to the R.C.C. / P.C.C columns/ mullions, 8mm diameter anchor fastner shall be provided instead of hold fasts or with M.S bolts/ T.W plugs and GI screws as required including tarring back of the frames, etc.; complete all as per specifications. Using first class ASCU treated Country wood (MATTI/HONNE) Supplying and fixing solid hard core non decorative type (BN) interior grade commercial BLOCK BOARD FLUSH DOOR SHUTTERS of approved make Conforming to I.S: 2202(Part – I) 1991 with teak wood internal lipping on all	0.2	cum		
	sides and solid teak wood inserts for mounting locks, having well matched commercial ply veneering on one phase and teak ply veneering on other face with cross bands and face veneering including cost of labour for fixing builders hardware and locking arrangements complete all as per specifications, but including cost of builders hardware and locking arrangement with screws 35mm thick . (OST)	5.67	Sqm		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
18.	Supplying and laying and fixing in Position under floor, against wall in Chases PVC SWR drainage pipe and Specials rubber rings conforming to IS: 13952 "supreme" or equivalent approved make as per manufacturers specification including cutting the pipes to required lengths, necessary excavation chasing and restoring to original conditions, testing etc. complete. a) 110mm dia.		Mtr		
19.	Providing ,laying ,jointing ,fixing, Testing ,painting,commissioning GI Pipes, medium grade ,conforming to IS 1239 with a minimum weight as follow including GI specials ,cutting the pipes to the required lengths, threading, jointing the pipes ,chasing the walls & floors ,making the holes ,clamping to walls using wooden spacers or clamps & restoring the same to the original condition ,necessary excavatio ,testing,refilling etc. complete all as per specified & directed. i). 15 mm n.b.(1.23 Kg/mtr) ii). 25 mm n.b. (2.46 Kg/mtr) iii) 20 mm n.b.(1.59 kg/mtr)	s n	Mtr. Mtr. Mtr.		
20.	Providing & fixing in position approved Make 15mm n.b. cp brass screw down Bib tap conforming to IS: 781 with a Minimum weight of 400 gms.	2 Nos.	Each		
21.	Providing and laying flagging concrete All round the building of 75mm thick, in CC 1:3:6 including laying, tamping, curing, formwork etc. and finishing with cement mortar 1:5 marked with 300 X 300 mm false square including curing etc. complete all as per specifications and directions of the EIC	25.0	Sqm		

Sl No	. Description of Item	Qty	Unit	Rate Rs.	Total Rs.
	SOAK PIT: Making soak pit of 3m diameter, 3m deep with 60 × 60 cm dry brick honey comb shaft with bricks of class designation 75 and PVC drain pipe of 150 mm diameter, 1.8 m long, complete as per standard design with F.P.S. bricks.	1 nos.	Each		
23.	MAN HOLE: (ITEM NO:05, Pg No:54)				
	Construction of Manhole of internal clear dimention 600×600mm in 230mm thick first class brick masonry using first class country bricks in CM 1:3 Over a bed of 150mm thick PCC 1:2:4, plastering with CM 1:2, 12mm thick on internal, external surfaces and internal, top exposed surfaces finished smooth with floating coat of neat cement, RCC 1:2:4 with necessary steel reinforcement as per drewing to support CI frame and cover, providing and fixing light duty double seal CI frame and cover of size 610×455mm weighing not less than 52 kgs. Conforming to I.S.: 1726 in CC 1:2:4 and CI steps with 3 coats of anticorrosive, black bitumastic painting, encasing of sewer connections to manhole in PCC 1:2:4 etc. complete all as specified and directed for initial depth of 0.75 mts. (Refer Fig. No. CED: PH: 8.8 of specifications for PH Engg, works). Note: CC 1:2:4 Item in the above item is by using 20mm size graded granite aggregate obtained from approved quarry.	1 Nos	Each		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
24.	Providing and laying cement concrete using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including formwork, compaction, finishing, curing, etc; IN BE BLOCKS, ANCHOR BLOCKS, WINDOWS CILLS, COPING BLOCKS up to floor-V level complete all as per specifications. Mix ratio specified is for (Cement: coarse sand:graded stone aggregate) The work includes providing throating/ drip mould wherever required as per standard engineering practice of size not be less than 40mmX15mm. The rate is inclusive for making drip mould & no extra cost will be paid for.				
24.1	P.C.C 1:3:6	1.25	CUM		
25.	Providing damp proof course with cemer concrete suing graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry, mixed with water proofing compound of approved quality and brand such as CICO or ACCOPROF or equivalent make (2% by weight of cement) as per manufacturer's specification including formwork, compaction, finishing top surface to level, curing etc: complete all as per specifications. Mix ratio specified is for (Cement: coarse sand Graded stone aggregate.)	l FF ons			
25.1	P.C.C 1:3:6	2.20	CUM		
26.	Providing and fixing at all heights/ in all floors with all leads Color Anodized Aluminum doors/ Windows/ Partition manufactured from best extruded aluming sections confirming to ISI, cut to length, joints mitred and corners grinded with	ım			

Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
joints waterproof the outer frame and shutter frame stiffened with corner angistrips or provided for in the frames for fixing the frame to the RCC columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre treated for removal of any rust and prevention of further rust formation and coated with greasy material for non adherence of mortar or any other sticky materials and this coat to be removed affinistallation of the sub dividing frames be tennoned and riveted in to frames all aluminum surface to be thoroughly be cleaned free or rust scale or dirt and mill scale by pickling surface finished with anodized dull matt finish 18MICRONS thick including cost of push and pull plates and fixtures for hinged opening (arrangement with steel bearings where ever necessary) including cost of labour for fixing of mortice lever locks aluminum handles, door fittings like tower bolts etc, fixing including screw/ bolts where shutters are involved etc; complete Cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel	e ter y	Unit		:
lining of approved quality wooden grou rubber gaskets aluminum glazing clips, mastic etc; and fixing with aluminum glazing clips and also snap on type with holes as per drawing and specificat provided for separately in the sub items following the main items of frame work	nds, ion			
	joints waterproof the outer frame and shutter frame stiffened with corner angl strips or provided for in the frames for fixing the frame to the RCC columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre treated for removal of any rust and prevention of further rust formation and coated with greasy material for non adherence of mortar or any other sticky materials and this coat to be removed af installation of the sub dividing frames b tennoned and riveted in to frames all aluminum surface to be thoroughly be cleaned free or rust scale or dirt and mill scale by pickling surface finished with anodized dull matt finish 18MICRONS thick including cost of push and pull plates and fixtures for hinged opening (arrangement with steel bearings where ever necessary) including cost of labour for fixing of mortice lever locks aluminum handles, door fittings like tower bolts etc, fixing including screw/ bolts where shutters are involved etc; complete Cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel boards including nylon or PVC or rubbe lining of approved quality wooden grou rubber gaskets aluminum glazing clips, mastic etc; and fixing with aluminum glazing clips and also snap on type with holes as per drawing and specificat provided for separately in the sub items	joints waterproof the outer frame and shutter frame stiffened with corner angle strips or provided for in the frames for fixing the frame to the RCC columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre treated for removal of any rust and prevention of further rust formation and coated with greasy material for non adherence of mortar or any other sticky materials and this coat to be removed after installation of the sub dividing frames by tennoned and riveted in to frames all aluminum surface to be thoroughly be cleaned free or rust scale or dirt and mill scale by pickling surface finished with anodized dull matt finish 18MICRONS thick including cost of push and pull plates and fixtures for hinged opening (arrangement with steel bearings where ever necessary) including cost of labour for fixing of mortice lever locks aluminum handles, door fittings like tower bolts etc, fixing including screw/ bolts where shutters are involved etc; complete Cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel boards including nylon or PVC or rubber lining of approved quality wooden grounds, rubber gaskets aluminum glazing clips, mastic etc; and fixing with aluminum glazing clips and also snap on type with holes as per drawing and specification provided for separately in the sub items following the main items of frame work	joints waterproof the outer frame and shutter frame stiffened with corner angle strips or provided for in the frames for fixing the frame to the RCC columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre treated for removal of any rust and prevention of further rust formation and coated with greasy material for non adherence of mortar or any other sticky materials and this coat to be removed after installation of the sub dividing frames by tennoned and riveted in to frames all aluminum surface to be thoroughly be cleaned free or rust scale or dirt and mill scale by pickling surface finished with anodized dull matt finish 18MICRONS thick including cost of push and pull plates and fixtures for hinged opening (arrangement with steel bearings where ever necessary) including cost of labour for fixing of mortice lever locks aluminum handles, door fittings like tower bolts etc, fixing including screw/ bolts where shutters are involved etc; complete Cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel boards including nylon or PVC or rubber lining of approved quality wooden grounds, rubber gaskets aluminum glazing clips, mastic etc; and fixing with aluminum glazing clips and also snap on type with holes as per drawing and specification provided for separately in the sub items following the main items of frame work	joints waterproof the outer frame and shutter frame stiffened with corner angle strips or provided for in the frames for fixing the frame to the RCC columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre treated for removal of any rust and prevention of further rust formation and coated with greasy material for non adherence of mortar or any other sticky materials and this coat to be removed after installation of the sub dividing frames by tennoned and riveted in to frames all aluminum surface to be thoroughly be cleaned free or rust scale or dirt and mill scale by pickling surface finished with anodized dull matt finish 18MICRONS thick including cost of push and pull plates and fixtures for hinged opening (arrangement with steel bearings where ever necessary) including cost of labour for fixing of mortice lever locks aluminum handles, door fittings like tower bolts etc, fixing including screw/ bolts where shutters are involved etc; complete Cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel boards including nylon or PVC or rubber lining of approved quality wooden grounds, rubber gaskets aluminum glazing clips, mastic etc; and fixing with aluminum glazing clips and also snap on type with holes as per drawing and specification provided for separately in the sub items following the main items of frame work

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	Note:- All fitting works shall be carried Out as per IS specifications including necessary rivets, screws, lugs, scaffoldin etc.,	g D			
a)	Providing and fixing of anodized alumin frame and shutters work (horizontal and verticals) for partition/ doors / windows with required section of JINDAL/ INDAL make or equivalent including framework for doors shutters window shutters (STYLES and RAILS) providing all items and sliding arrangement for operation of shutters and complete (Aluminum beading and glazing clips measured under this item only) For sliding windows/Doors. a)The windows shall be made out of extruded aluminium sections. (20837 of zindal). b) The main bottom section with three track gutter section be shall (123 X 44 X 1.5)mm weighing approx. 2.032 kg/m. (20928 Zindal). c) The Three track top section shall be (123X44X1.5)mm weighing approx. 1.197 kg/m. (20837 of Zindal). d) The Three track side section shall be (123 X 44 X 1.5)mm weighing approx. 1.197 kg/m. (20837 of Zindal).	ent			

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Amount (Rs)
	f) Each shutter shall be provided with 2 ball bearing rollers, 2 anti-rattling pieces guides one each at top and bottom and weather stripping alround.	/			
	g) All joints shall be mitred.				
	h) Window shutters shall be provided with special locking arrangement.	200	Kgs		
b)	Providing and fixing glass panes of Selected glazing quality and thickness as specified below including providing fixing Nylon/ Rubber/ PVC lining of approved quality and fixed with aluminium glazing clips/ aluminum beading (supply cost of aluminum clip and beadings are measured in item above a) for DOORS/ WINDOWS/ PARTITIONS etc.,) Using 5mm thick	S	Sam		
	Plane Glass of Approved quality.	12.00	Sqm		
c)	Providing and fixing stainless steel me of 16 gauge of Selected quality as specified below including providing an fixing Nylon/ Rubber/ PVC lining of approved quality and fixed with alumin glazing clips/ aluminum beading (supprost of aluminum clips and beadings are measured in item above a) for DOORS/ WINDOWS / PARTITIONS etc.,)	d num	Sqm		
27.	Providing and laying water proofing treatment over roof slab in three course as specified below: a) I course The roof slab to be cleaned with wire brush- cleaning and surfaces prepared.				
	Construction joints if any are to be rack and cleaned. A coat of cement slurry	ed			

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	at the rate of 4.4kg/sqm mixed with acryl water proofing compound is spread which penetrates into the structure, which will fill the cracks and other porous areas. 15mm thick CM 1:5 mixed with acrylic water proofing compound reinforced with a layer of chicken mesh 12mmx26 gauge must be laid.				
	b) II course A layer of 34 brick on edge with gaps filled with CM 1:5 mixed with acrylic water proofing compound, 15mm wide laid to a slope of 1 in 60 using I class well burnt bricks (water absorption not more than 20%) with minimum thicknes of 65mm at outer ends, to get required gradient for adequate drainage.	s 45.00	Sqm		
	Or 2) Conplast X421C integral waterproof compound manufactured by FOSROC chemicals (India) Ltd., Bangalore. The proportion of CONPLAST X421 IC shall be 130ml per 50 kgs of cement.	ing			
28.	Providing and fixing MS grills of required pattern in steel frames for aluminium windows, with MS flats, squa or round bars with round headed bolts and nuts or by screws etc complete all as per drawings and directions of engineer in charge at all levels, including paintings with one coat of Zinchromate primer and two coats of enamel of approved shade.	d ·			
	a) Plain grill (With vertical, horizontal members or a combination of both, with bright bars)	75	Kgs		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
	French spirit polishing TWO or more coats including a coat of wood filler and shellae at 0.245 Kg/10sqm on new work complete as per specification at all floors and all levels. (Rate to include cost of wood filler, pigment, woolen colth, putty sand paper, linseed oil, cotton etc.)	etc.	Sqm		
30.	Clearing the debris away from the institute campus including loading and unloading with all leads and lifts complete as per the instructions of the engineer –in charge.	10.0	Cum		
31.	Electrical Works:				
	1. Providing, fixing, testing and commissioning of light points anchor room metal box roma switch and seat cover, 1.5Sqmm. Finolex multi stand wire, 1" 2mm PVC pipe and necessary fittings.	, 14	Point		
	2. Providing, fixing, testing and commissioning of 15 Amps. Power points roma anchor metal box switch, and socket and switch seat cover 2mm PVC pipes and necessary fittings.	6	Point		
	3. Providing, fixing, testing and commissioning of circuit line 4Sqmm Finolux wire 2 runs. 1.5Sqmm Finolux wire 1 run. 1" PVC 2mm pipe and necessary fittings.	40	Rmt		
	4. Providing, fixing, testing and commissioning of circuit line 2.5Sqmn Finolux wire 2 runs. 1.5Sqmm Finolux wire 1 run. 1" PVC 2mm pipe and necessary fittings.		Rmt		
	5. Cable	35	Mts		

Sl No.	Description of Item	Qty	Unit	Rate (Rs)	Total (Rs)
6.	Holder fixing with bulb	14	Each		
7.	D.B.box	1	Each		
			Total =		
Rupees.					

